

*solvent dependency of viscosity, & solubility of  
GERMAN,  
FRENCH, per, Helvetica Chimica Acta, Vol XXXII, No 7,  
1919, pp 2441-2444.*

NIH 5-9-61

Sci - Med  
Jul 61

159, 546

Infrared Spectra of Polymers and Polyimides

The Determination of Uranium in Rocks,  
Geochemical Investigations. I., by H. Erlenmeyer,  
W. Oppliger, K. Stier, M. Blumer, 17 pp.

GERMAN, per, Helvetica Chimica Acta, Vol XXXIII,  
No 1, 1950.

S.L.A.

Scientific - Chemistry

24, 817

Preparation of GaLi<sub>2</sub> arc GaIn from Gallium and Metal Halides, by K. Clusius, F. Hitzig, 6 pp.

GERMAN, per: Helvetica Chimica Acta, Vol XXXII,  
No 3, 1950, pp 506-511.

SLA 60-14526

Sci

Apr 61

OTS, Vol III, No 12

162,956

Solubility Product of Some Zinc Hydroxy Compounds, by W. Peitknecht.  
GERMAN, per, Acta Chem Scand, Vol 33, 1950,  
pp 922-936.  
EZ

Sci-Chem  
Sept 69

392,782

Bio Lab T-607-1

R-9167-D  
16 Feb 68

Partialsynthese von Convallatoxin

By: REILLY

From: Helv. Chim. Acta. 33:1541-1546, 1950 ( 6 pp)

German - est for wds:

Please translate and type 1 camera ready copy.  
Document can be cut. Make cover as sample attached  
T-607-1.

Sedimentological Investigations. Part IV, The Limits of  
Occurrence of Inorganic Ions in the Formation of  
Sedimentary Rocks, by M. Blunser.

CHEMIE, part. Verv. Chim Acta, Vol. XXIII, No. 6,  
1950, pp. 1586-1591.

ADS 4J16G  
ADS 109-03  
A

Sci  
May 29

87, 238

<p>Posternak, Theodore. RESEARCH ON THE CYCLITOL SERIES XIV. NITROUS ACID DEAMINATION OF AMINO-CYCLITOLS: SYNTHESIS OF D,L-VI-BURNITOL AND COMPLETE NEW SYNTHESIS OF MESO-INOSITOL. [1961] 20p. 27 refs. Order from SLA \$1.60 Trans. of <i>Helvetica Chimica Acta</i> (Switzerland) 1950, v. 33. p. 1597-1605.</p> <p>DESCRIPTORS: Nitrous radicals, Organic acids, Decomposition, Amines, Synthesis, Methyl radicals, *Cyclohexanols, Glucose, Reduction, Oximes, *Inositol, Vitamin B complex, Reaction kinetics.</p> <p>(Chemistry--Organic, TT, v. 10, no. 1)</p>	<p>61-20429</p> <p>I. Title: Burnitol 2. Title: Cyclitol I. Posternak, T. II. Title: Synthesis ...</p> <p>Office of Technical Services</p>
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The Separation Tube. IX. Preparation of Pure  
Heavy Nitrogen, 15n', by Klaus Clusius, 29 pp.

GERMAN, per, Helvetica Chim Acta, Vol XXXIII,  
No 7, pp 2134-2152.

S.L.A.

Scientific - Chemistry

CRS 68/May 55

23,695

Cherbuliez, Emile and Leber, Jean Pierre.  
VOLATILITY OF ORTHOPHOSPHORIC ACID, tr, by  
Bertha P. Klenova. 7 May 51, 5p. 8 refs. TVA 3019.  
Order from CTS or SLA \$1.10 62-25780

Trans. of Helvetica Chlm[ical] Acta (Switzerland) 1950,  
v. 33, p. 2264-2267.

DESCRIPTORS: \*Phosphoric acids, Evaporation, Vapor  
pressure, Thermodynamics.

At 130° C, orthophosphoric acid has a vapor pressure of  
a few thousandths of a millimeter, and this explains its  
perceptible volatility at this temperature. (Author)

62-25780

- I. Cherbuliez, E.
- II. Leber, J. P.
- III. TVA-3019
- IV. Tennessee Valley  
Authority, Wilson Dam,  
Ala.
- V. 60-232+ canceled

(Chemistry--Physical, TT, v. 9, no. 4)

10-31-62

Office of Technical Services

On 4, 5-Dinitro-2-Methylbenzoic Acid, by  
H. Goldstein, A. Tardent.  
GERMAN, por, Helvetica Chémica Acta, Vol XXIV,  
No 17, 1931, pp 149-154.  
NARA T7 F-9419

Sci-Chem  
Aug 65  
U. S. GOVERNMENT ONLY

286,912

Hydrazine Derivatives of the XEN Phthalazine and  
Hydrazine Series, by J. Leroy, D. H. Ringer.

Phthalazine Series, by J. Leroy, D. H. Ringer.  
CRIMSON, par, Ann Chim Acta, Vol XXII, No 1,  
1951, pp 195-210.

NTH 10-24-62

Soc. - Chem

Dec 62

218,879

Prediction of the Bactericidal Effects of  
Materials Through the Determination of their  
Affinity for Wool, by Roland Fischer, A. Kuhle,  
S. Seidenberg, 20 p.

GERMAN

~~1950~~, per, Helv Chim Acta, 1951, Vol XXXIV, No 1,  
pp 210-221.

SLA 59-17814

Sci  
Feb 60  
Vol 2, No 10

108820

A Simple Merocyanine From Eneligable  
1,3 - Diketones, by W. Jenny, 7 pp

GERMAN, per, Helvetica Chim Acta,  
Vol XXXIV, 1951, pp 539-548.

CIA/FDD/X-1586

32,861

Scientific - Chemistry Apr 55 GTS

+

Complexones XVIII. Iron II- and Iron III-Complexes  
of Edta and Their Equilibrium, by G. Schwarzenbach,  
J. Heller, 12 pp.

GERMAN, per, Helvetica Chimica Acta, Vol XXX, 1951,  
pp 576-591.

SLA 59-15666

Sci  
Jan 60  
Vol 2, No 7

105/191

Separation of Substances by Means of a Small Difference in Potential, by J. Piaget, W. Kuhn, H. Kuhn, 34 pp.

GERMAN, per, Helv Chim Acta, Vol XXXIV, 1951, pp 1183-1202.

S.L.A. Tr No 494/1955

Sci - Chemistry  
Jan 1957 CTS/dex

45, 860

Concerning the Adsorption of Radon on Activated  
Charcoal and Silica-Gel, by O. Guebeli,  
K. Stammbach, 9 pp.  
GERMAN, per, Helvetica Chimica Acta, Vol XXXIV,  
1951, pp 1257-1243. 9224366  
AEC-SC-T-64-613

Sci-Chem  
Aug 64

265,116

Erlenmeyer, H., Hahn, H. von, and Sorkin, E.  
A PAPER-CHROMATOGRAPHIC SEPARATION AND  
DETERMINATION OF THE ALKALI-ALKALINE  
EARTH IONS. 1962, 4p.  
Order from K-H \$5.00

K-H 9188-c

Trans. of Helvetica Chimica Acta (Switzerland) 1951,  
v. 34, p. 1419-1421.

DESCRIPTORS: \*Paper-chromatography, Separation,  
Determination, \*Alkaline earths, Ions, Alkali  
metals.

62-12749

- I. Erlenmeyer, H.
- II. Hahn, H. von
- III. Sorkin, E.
- IV. K-H-9188-c
- V. Kresge-Hooker Science  
Library Associates,  
Detroit, Mich.

(Chemistry--Analytical, TT, v. 7, no. 12)

Office of Technical Services

<p>Bader, F. THE ULTRAVIOLET ABSORPTION OF PHYTOL AND OTHER TERPENE ALCOHOLS. [1962] 5p. Order from K-H \$6.25 K-H 5226-b Trans. of Helvetica Chimica Acta (Switzerland) 1951, v. 34, p. 1632-1634.</p> <p>DESCRIPTORS: *Ultraviolet radiation, *Absorption, *Terpenes, *Alcohols.</p> <p>(Biological Sciences--Biochemistry, TT, v. 8, no. 6)</p>	<p>62-17781</p> <p>I. Title: Phytol I. Bader, F. II. K-H-5226-b III. Kresge-Hooker Science Library Associates, Detroit, Mich.</p> <p>Office of Technical Services</p>
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Separation of Alkali Ions With Ion Exchanger and Komplexon, by W. Buser, 9 pp.

GERMAN, per, Helv Chim Actu, Vol XXXIV, 1951,  
pp 1634-1741.

AEC Tr 1770

Scientific - Chemistry  
CTS/DEX

10,048

On De-salting of Solutions of Neutral Amino Acids  
by Means of Ion-exchangers and a New Preparative  
Process for the Group Separation of Amino-Acids in  
Egg-white Hydrolysates, by M. Brenner, R. Frey.

GERMAN, Der. Helv Chim Acta, Vol XXXIV, 1951,  
pp 1701-1711.

D.S.I.R./10475/CT

Scientific - Chemistry

12,164

DEX ONLY

Brunisholtz, G. and Bonnet, J.  
SEPARATION OF BORIC ACID FROM AMMONIUM  
ION AND METALLIC CATIONS BY MEANS OF ION  
EXCHANGERS. Pt. 1 of Determination of Boric Acid.  
[1961] 3p. (footnotes, table omitted).

Available on loan from SLA

62-10092

Trans. of Helvetica Chimica Acta (Switzerland) 1951,  
v. 34, no. 6, p. 2074-2075.

DESCRIPTORS: \*Boric acid, Acids, Separation, Ions,  
Ion exchange, \*Ammonium radicals.

Boric acid can be separated from the cations which  
impede its acidimetric determination ( $\text{NH}_4^+$ ,  $\text{Zn}^{++}$ ,  
 $\text{Ni}^{++}$ ,  $\text{Fe}^{++}$ ,  $\text{Al}^{+++}$ , etc.) by means of ion  
exchangers of the sulfonic type. The use of a mixed  
indicator (methyl red + methylene blue), instead of  
the commonly used methyl red, improves the ti-  
(Chemistry--Physical, TI, v. 7, no. 4) (over)

62-10092

- I. Brunisholtz, G.
- II. Bonnet, J.
- III. Title: Determination ...

Office of Technical Services

Heise, M. and Wieland, K.

ABSORPTIONSPECTROGRAPHIC INVESTIGATIONS ON  
THE OCCURRENCE OF ALUMINUM-MONOHALO-  
GENS, PARTICULARLY OF AlCl, IN THE THERMAL  
EQUILIBRIUM. [1963] [16p] (figs tables refs omitted)  
Order from SLA \$1.60

63-18823

I. Heise, M.  
II. Wieland, K.

Trans. of Helvetica Chimica Acta (Switzerland) 1951,  
v. 34, p. 2182-2197.

DESCRIPTORS: \*Aluminum compounds, Chlorides,  
\*Spectroscopy, \*Absorption spectrum, \*Thermochemistry,  
Heat of formation, Chemical equilibrium.

The absorption bands of the AlCl radical appear at  $\approx$  1100°C. owing to the homogeneous equilibrium (I)  
 $(AlCl_3) \rightleftharpoons (AlCl) + (Cl_2)$  and at  $\approx$  500°C. because  
of the heterogeneous equilibrium (II)  $(AlCl_3) + 2(Al) \rightleftharpoons 3(AlCl)$ . The bands were photographed and  
(Chemistry--Physical, TT, v. 10, no. 11) (over)

Office of Technical Services

Labhart, H., Lotmar, W., and Schmid, A. P.  
AN INTERFEROMETRIC MICRO-METHOD FOR  
DIFFUSION MEASUREMENTS, tr. by Bertha P. Klerova  
22 Jan 53, 10p, 27 refs. TVA 3156.  
Order from OTS or SLA \$1.10

62-25731

Trans. of Helvetica Chimica Acta (Switzerland) 1951,  
v. 34, p. 2449-2457.

DESCRIPTORS: \*Laboratory equipment, \*Interferometers, \*Microanalysis, \*Electrophoresis, Potassium compounds, Chlorides, Sucrose, \*Diffusion.

Diffusion measurements made with an interferometric micro-electrophoresis apparatus are described. The experimental results obtained with potassium chloride and sucrose are consistent within 1.5 per cent with the data reported in the literature. A simple evaluation method of the graphs is proposed and a comparison is made with other methods. (Author)  
(Chemical-Analytical, TT, v. 9, no. 6)

(over)

62-25781

- I. Labhart, H.
- II. Lotmar, W.
- III. Schmid, A. P.
- IV. TVA-3156
- V. Tennessee Valley Authority, Wilson Dam, Ala.
- VI. 60-23327 canceled

10-31-62  
Office of Technical Services

Forced Oscillations of an Incompressible and  
Viscous Liquid in a Rigid and Horizontal Tube,  
Calculation of the Force of Friction, by  
Paul Lambossey, 12 p.

GERMAN

~~Swiss~~, per, Helv Physica Acta, 1952, Vol XXV,  
No 4, pp 371-386.

SLA 59-17964

Sci  
Mar 60

109635

Vol 2, No 11

Influence of Acidity on the Absorption Spectrum  
of Some Vat Dyestuffs, and Relations to the  
Redox Potential, by H. Meyer, et al.

GERMAN, per, Helvetica Chimica Acta,  
Vol XXXV, 1952.

NRC Library  
Ottawa, Ref C-2419

Sci - Chem  
Apr 62

192, 100

On the Redox Potential of Some Polyhydrox-Anthraquinones and Vat Dyestuffs,  
by H. Meyer, et al.

GERMAN, per, Helvetica Chimica Acta,  
Vol XXXV, 1952.

NRC Library  
Ottawa, Ref C-2418

Sci - Chem  
Apr 62

192,101

Infrared Spectra of N-Amino Acids,  
by P. Beumann, Ms. H. GUNTHARDT  
Günther, F. pp.

GERMAN, per, Helvetica Chimica Acta,  
Vol. XXV, No 4 5, 1952, pp 53-60.

SLA 60-18080

Sci  
Feb 63

186, 748

Moulin, Fr.

RESEARCHES ON 1-BENZYL AND 1-PHENYL - SUBSTITUTED 1,2,3-TRIAZOLES. [1961] 10p. (experimental data omitted) 15 refs.

Order from SLA \$1.10

61-20654

Trans. of Helvetica Chimica Acta (Switzerland) 1952,  
v. 35, p. 167-180.

DESCRIPTORS: \*Azoles, Synthesis, Hydrogenation,  
Physical properties, Benzyl radicals, Phenyl radicals.

61-20654

I. Moulin, F.

(Chemistry--Organic, TT, v. 7, no. 1)

Office of Technical Services

Vitamin B<sub>12</sub>. III. Isolation of Vitamin B<sub>12</sub> From  
Liver Extract and From the Residues of  
Streptomycin Manufacture: I, Experiments With  
Vitamin B<sub>12</sub>, by O. Schindler, T. Reichstein, 9 p.

GERMAN, per, Helv Chim Acta, 1952, Vol XXXV,  
pp 307-316.

SLA 60-10742

Sci  
May 60  
Vol 3, No 4

116, 755

On the Art of Drawing Refractive Index Gradients  
by Interferometer, by E. Wiedemann, 17 pp.  
UNCLASSIFIED

GERMAN, per, Helvetica Chimica Acta, Vol XXXV, No 1,  
1 Feb 1952, pp 82-92.

Dept of Commerce  
Patent Office  
Sci Lib (gift)

58,629

Sci - Physics  
Feb 58

<p>Jaumin, Roland and Germano, Angelo. CHLORINATION OF CYCLOHEXANE: A NEW ISOMER OF HEXACHLOROCYCLOHEXANE. [1963] 6p 7 refs Order from SLA \$1.10 63-18245</p> <p>Trans. of <u>Helvetica Chimica Acta</u> (Switzerland) 1952, v. 35, p. 392-396.</p> <p>DESCRIPTORS: *Cyclohexanes, *Chlorination, Chlorides, Synthesis (Chemistry), Chemical analysis, *Photochemistry, *Hexachlorocyclohexanes.</p> <p>(Chemistry--Organic, TT, v. 10, no. 11)</p>	<p>63-18245</p> <p>I. Jaumin, R. II. Germano, A. III. Title: New ...</p> <p>Office of Technical Services</p>
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On the Preparation of  $\alpha$ -Amino-  $\gamma$ -Oxo Carboxylic Acids by Condensation of  $\alpha$ -Oxo Monobromides with Sodium Acetamido Malonic Ester,  
by O. Wiss, H. Fuchs, 6 pp.  
GERMAN, per, Helvetica Chimica Acta, 1952,  
Vol 35, No 1, pp 407-411.  
SLA TI 64-18880

Jul 66

305,415

The Mechanism of Matarotation of 5,6-Dibromocholestanate, by C. A. E Grob, S. Winstein, 20 pp.

GERMAN, per, Helv Chim Acta, Vol XXXV, 1952, pp 782-802.

SLA 62-14943

SLA 2910

Sci - Chemistry  
S b 58

579, 500

Rüetschi, Paul and Trümpler, G.  
MULTI-WAVE POLAROGRAMS, I (Mehrstufige Polaro-  
gramme, I). [1962] 15p. 21 refs.  
Order from SLA \$1.60

62-14799

Trans. of Helvetica Chimica Acta (Switzerland) 1952,  
v. 35 [no. 3] p. 1021-1030.

DESCRIPTORS: \*Azo radicals, \*Phenyl radicals,  
\*Polarographic analysis, Hydrogen ion concentration,  
Electrodes, Surfaces, Glass electrodes, Adsorption,  
Reduction, Organic compounds, Isomers, Wave analy-  
sis, Mercury electrodes.

A theory of multi-wave polarograms is developed on the  
basis of hydrogen ion impoverishment at the electrode sur-  
face. Qualitative relationships for shape and height of  
waves are derived and are experimentally tested for  
the case of azobenzene. (Author)  
(Chemistry--Physical, TT, v. 8, no. 5)

62-14799

I. Rüetschi, P.  
II. Trümpler, G.

Office of Technical Services

Rüetschi, P[aul] and Trümpler, G.  
MULTI-WAVE POLAROGRAMS, II (Mehrstufige  
Polarogramme, II). [1962] 12p. + refs.  
Order from SLA \$1.60

62-14801

Trans. of Helvetica Chimica Acta (Switzerland) 1952,  
v. 35 [no. 5] p. 1-86-1-94.

DESCRIPTORS: \*Azo radicals, \*Phenyl radicals,  
\*Acetic acids, \*Hydrochloric acid, Acids, \*Polaro-  
graphic analysis, Hydrogen ion concentration, Elec-  
trodes, Surfaces, Dissociation, Wave analysis.

The theory of hydrogen ion impoverishment in the case  
of polarography of organic substances in insufficiently  
buffered solution is established in greater detail and is  
verified by additional experiments. The theory permits  
the calculation of multi-wave polarograms that agree  
with those found experimentally. It reproduces a cor-  
(Chemistry-Physical, TT, v. 8, no. 5) (over)

62-14801

I. Rüetschi, P.  
II. Trümpler, G.

Office of Technical Services

On 4, 5-Dinitropthalic Acid, by H. Goldstein,  
J. P. McCormick.  
GERMAN, per, Helvetica Chimica Acta, Vol XXXV,  
No 115, 1952, pp 1470-1480.  
FDNSA TT F-9418

Sci-Chem  
Aug 63  
U.S. GOVERNMENT ONLY

286,811

Rüetschi, Paul and Trümpler, G.  
MULTI-WAVE POLAROGRAMS, III (Mehrstufige  
Polarogramme, III). [1962] 23p. 12 refs.  
Order from SLA \$2.60

62-14800

Trans. of Helvetica Chimica Acta (Switzerland) 1952,  
v. 35 [no. 6] p. 1957-1970.

DESCRIPTORS: \*Azo radicals, \*Phenyl radicals,  
\*Carboxylic acids, Acids, \*Polarographic analysis,  
Hydrogen ion concentration, Dissociation, Reduction,  
Kinetic theory, Electrodes, Surfaces, Wave analysis,  
Organic compounds.

The theory of hydrogen ion impoverishment in insufficiently buffered solution is extended to dissociable substances and is tested experimentally in the instance of p-azobenzenemonocarboxylic acid. It is possible to calculate wave height and curve shape and to state the (Chemistry-Physical, TT, v. 8, no. 5) (over)

62-14800

I. Rüetschi, P.  
II. Trümpler, G.

Office of Technical Services

Organic Derivatives of Clay Minerals, by  
H. Deuer, G. Huber, H. H. Günthard, 11 pp.

GERMAN, per, Helv Chim Acta, Vol XXXV,  
1952, pp 1799-1802.

NOT RELEASABLE TO FOREIGN NATIONALS

CIA/PDD XX-323

Sci - Chemistry  
Aug 57  
~~IAC INTERNAL USE ONLY~~

51,169

Bernhard, Karl, Cloor, Urs, and Scheitlin, Erwin.  
ABOUT THE DECOMPOSITION OF ALIPHATIC  
HYDROCARBONS WITH 8-18 C-ATOMS IN THE  
ANIMAL BODY. [1960] 9p. (footnotes, Eng. sum-  
mary omitted).  
Order from SLA mi\$1.80, ph\$1.80 61-10403

Trans. of *Helvetica Chimica Acta* (Switzerland) 1952,  
v. 35 [no. 6] p. 1908-1913.

151430

61-10403

1. Hydrocarbons--  
Decomposition
  2. Aliphatic compounds--  
Decomposition
- I. Bernhard, K.  
II. Cloor, U.  
III. Scheitlin, E.

Office of Technical Services

(Biological Sciences--Biochemistry, TT, v. 5, no. 8)

Molecular Eigenfunctions of Definite Symmetry:  
Linear Combinations of s-Functions, by  
H. H. Guenthard, E. Heilbommer,  
GERMAN, per, Helvetica Chimica Acta, Vol 55,  
1952, pp 2149-2169.  
Dept of Navy/NRL Trans No 1140

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Sci-Math  
Apr 68

554,973

Schumann, Ingeborg and Boissonas, R. A. DISSOCIATION OF THE "PHTHALYL" GROUP OF AMINO ACIDS AND N-PHTHALYL PEPTIDES BY PHENYLHYDRAZINE. [1961] [5]p. 10 refs. Order from SLA \$1.10	61-14759  I. Schumann, I. II. Boissonas, R. A.  175210	
Trans. of <u>Helvetica Chimica Acta</u> (Switzerland) 1952, v. 35, p. 2235-2237.		
DESCRIPTORS: *Amino acids, *Peptides, Synthesis, *Phthalyl radicals, Dissociation, Hydrazines, Phenyl radicals, Chemical reactions.		
The phthalyl group of N-phthalyl derivatives of amino acids and peptides is removed in one step by heating an alcoholic solution with phenylhydrazine and a tertiary base. (Author)		
(Chemistry--Organic, TT, v. 6, no. 3)	Office of Technical Services	

Determination of Niobium and Tantalum in Columbite and  
Euxenite, by W. D. Treadwell, et al, 20 pp.

GERMAN, per, Helvistica Chimica Acta, Vol XXXV, No 7,  
1 Dec 1952, pp 2248-2259.

S.L.A. Tr 742/1955  
5

Sci - Chemistry  
Apr 1957 CTS/dex

50, 332

Karrer, P. and Kehrle, J.  
ON THE CONSTITUTION OF SOME UNSATURATED  
COMPOUNDS PREVIOUSLY PREPARED FROM  
[B-IONONE]. [1962] 6p.  
Order from K-H \$7.50

K-H 5226-c

Trans. of Helvetica Chimica Acta (Switzerland) 1952,  
v. 35, p. 2570-2573.

DESCRIPTORS: Chemical analysis, \*Ketones, \*Terpenes, Camphanes.

62-22481

- I. Karrer, P.
- II. Kehrle, J.
- III. K-H-5226-c
- IV. Kresge-Hooker Science  
Library Associates,  
Detroit, Mich.

(Chemistry--Organic, TT, v. 9, no. 2)

Office of Technical Services

Formation Of Nitrous Oxide In the Oxidation Of  
Ammonium Salts With Sodium Hypobromite by K.  
Clusius and G. Rechnitz.

GERMAN, per, Helvetica Chimica Acta, Vol XXXVI,  
1953, pp 59-65

CSIRO

Oct. 62

R-5724-D  
18 Aug 65

Über eine einfache Methode zur Bestimmung der  
inneren Oberfläche feinverteilter fester Substanzen.  
By: Georg Karagounis  
From: HELVETICA CHIMICA ACTA, V. 36, 1953  
pp 288-290

( 9 pp )

German - est for wds:

Type one original and one carbon copy. Do not include  
or translate graphs. Do include and translate the  
tables and formulas. Document can be cut for paste-up.

BRUNISHOLZ, G.

INSDOC-T-2042. On the complexometric estimation  
of calcium in presence of magnesium and phosphate.  
Helv. Chim Acta, 36, p.782-787, 1953.

SIA 63-16062

Garbers, C. F. and Karrer, P.  
CAROTENOID SYNTHESIS. XIL BIS-DEHYDRO-  
LYCOPENE AND TOTALLY SYNTHETIC CIS-  
LYCOPENE. [1962] 13p.  
Order from K-H \$16.25  
K-H 5472-d  
Trans. of Helv[etica] Chim[ica] Acta (Switzerland)  
1953, v. 36, p. 828-834.  
DESCRIPTORS: \*Carotenoide, Synthesis, Pigments,  
\*Plant pigments, Molecular structure.

62-22393

- I. Title: Lycopene
- I. Garbers, C. F.
- II. Karrer, P.
- III. Title: Bis-dehydro-  
lycopene ...
- IV. K-H-5472-d
- V. Kresge-Hooker Science  
Library Associates,  
Detroit, Mich.

(Biological Sciences--Biochemistry, TT, v. 9, no. 2)

Office of Technical Services

Comparative Study of the Cleavage of Different Blocking Groups of the  $\alpha$ -amino Function of the Amino Acids,  
by R. A. Boissonnas, G. Preitner, 23 pp.

~~French~~, per, Helv Chim Acta, Vol XXXVI, No 4, 1953,  
pp 109, 110; 875-886.

NIH Tr 5-13

Sci - Chem

48, 022

May 57

The Separation Tube — Purification of the Light  
Argon Isotope  $^{36}\text{Ar}$  and Concentration of the Argon  
Isotope  $^{38}\text{Ar}$  Up to 90% through Use of Auxiliary  
Gases, by K. Clusius & E. Schumacher.  
GERMAN, per, Helvetica Chimica Acta, Vol 36, No 5,  
1953, pp 969-984. P911082468-V  
AEC-HLM-TR 1479

Sci/Chem  
Apr 68

351,306

Coenzyme A. Model Experiments on the Biological  
Acylation Reaction. The Reactivity of Thiol-  
carboxylic Acids and Their Esters, by R. Schwyzer,  
15 pp.

GERMAN, per, *Helv. Chim. Acta*, Vol XXXVI, 1953,  
pp 414-423.

Sci - Chemistry  
Apr 1957

SLA Tr 1600 Jan 1957  
46,172

On the Complexometric Estimation of Calcium  
in Presence of Magnesium and Phosphate, by  
G. Grunisholz.

8 H  
GERMAN, per, Calv Chim Acta, Vol XXXVI, 1953,  
pp 782-787.

AM/INSDOC-TR-2042

Sci

Jul 58

68,399

Cherbuliez, Emile, Leber, Jean-Pierre, and Ulrich,  
Anne-Marie.

INVESTIGATION OF THE FORMATION AND REAR-  
RANGEMENTS OF ESTERS. IV. THE BEHAVIOR  
OF ORTHOBORIC ESTERS. 11p (7 refs omitted)  
Crdr from SLA \$1.60

TT-64-16448

Trans. of Helvetica Chimica Acta (Switzerland) 1953,  
v. 36, no. 4, p. 910-918.

TT-64-16448

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II. Leber, J.-P.  
III. Ulrich, A.-M.

TT-64-16448

(Chemistry--Organic, TT, v. 12, no. 4)

Office of Technical Services

Metal Complexes and Tuberculestatic Acitivity, by  
H. Erlenmeyer.

GERMAN, per, Helv Chim Acta, Vol XXXVI, pp 941-  
949, 1953.

ASLIB-GB2

Sci - Chem  
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Complexes of (Ethylenediamine) Tetra-acetate and with  
Vanadium ( $\text{-H}_4\text{V}$ ), by G. Schwarzenbach, J. Sanders, 16 pp.

GERMAN, per, Helv Chim Acta, Vol XXXVI, 1953, pp 1029-  
1100.

AEC CEA Tr A245

Reverse Trans. German to French  
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Separation of Rare Earths in Aqueous Solution by  
Ionic Migration, by K. Clusius, E. R. Ramirez,  
9 pp.

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1953, pp 1160-1165.

SLA 57-2327  
AEC-TR-2930

Jul 58

69, 958

Researches on Casein VII. Identity of -Caseins  
and Paracasein, by E. Cherbellez, Bertrand Wolf,  
1 p.

GERMAN, per, Helv Chim Acta, Vol XXXVI, Aug 1953,  
pp 1174-1177.

S.L.A. Tr. 96

EEur - Germany  
Scientific - Chemistry

32,770

Relative Differences in the  $\text{H}_2\text{O}^{18}$ -Content of  
Natural Waters, by P. Baertschi, 16 pp.

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S.L.A. Tr 1075/1956

Sci - Chemistry  
Oct 56 CTS

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Treadwell, W. D. and Werner, W.  
THE DETERMINATION OF THE VAPOR PRESSURES  
OF SOLID CESIUM, RUBIDIUM, AND POTASSIUM  
CHLORIDE BY THE ENTRAINMENT METHOD IN A  
STREAM OF NITROGEN. [1963] [14]p. 23 refs.  
Order from SLA \$1.60

63-16871

Trans. of Helvetica Chimica Acta (Switzerland) 1953,  
v. 36, p. 1436-1444.

DESCRIPTORS: \*Cesium compounds, \*Rubidium com-  
pounds, \*Potassium compounds, \*Chlorides, Sublima-  
tion, \*Vapor pressure, Determination, \*Nitrogen,  
Entropy, Volumetric analysis.

The sublimation pressures of cesium, rubidium and  
potassium chloride were determined according to the  
transport method with the use of nitrogen as the trans-  
port gas to be in the respective temperature ranges of  
(Chemistry--Physical, TT, v. 10, no. 6) (over)

63-16871

1. Title: Entrainment
- I. Treadwell, W. D.
- II. Werner, W.

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Study of Natural Convection Currents in Electrolysis  
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Full translation.

GERMAN, per, Helv Chim Acta, Vol XXXVI, No 6,  
1953, pp 1624-1630.

S.L.A. AL-310

Scientific - Electricity *also T7-64-10124*

25, 921

Jul 1955

Preparation of Phenyl Hydrazine by  
Electrolytic Reduction of Diazonium  
Compounds, by R. Rutschi, G. Trumper.  
SWEDISH, per, Helvetica Chimica Acta,  
Vol XXXVI, 1953, pp 1649-1658.  
SLA TT 64-20351

Sci  
May 67

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Infrared Spectra of Chain Molecules of the Formula  
 $R^1CO(CH_2CH_2)_nCO^2R$ . I. Fundamental Tones for Rocking  
and Twisting, by H. Primas, H. Gunthard.

GERMAN, per, Helvetica Chimica Acta, Vol XXXVI,  
1953, pp 1659-1670.

CSIRO Tr 5029

Sci - Chem

Jun 61

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A Mechanical Model for Determination of the  
Absorption Maxima of Organic Dyestuffs on the  
Basis of Their Chemical Constitution, by H.  
Leibhart, 12 pp.

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Scientific - Chemistry  
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Preparation of Highly Menthated Cellulose Xanthate<sup>c</sup>.  
Part II, by Ernst Geiger, B. J. Weiss, 11 pp.

GERMAN, per, Helvetica Chimica Acta, (Switzerland),  
Vol XXXVI, No 247, 1953, pp 2009-2017.

SLA 59-10152

Sci - Chem  
CIS I, 9  
Jun 59

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Zimmermann, J.  
TRITERPENES AND PIGMENTS IN FLOWERS AND  
FRUITS, I. [1962] 5p.  
Order from K-H \$6.25

K-H 3658

Trans. of Helvetica Chimica Acta (Switzerland) 1954  
[v. 37] p. 332-334.

DESCRIPTORS: \*Terpenes, \*Plant pigments, \*Plants,  
\*Fruits.

(Agriculture--Plant Cultivation, TT, v. 9, no. 1)

62-22898

I. Zimmermann, J.  
II. K-H-3658  
III. Kresge-Hooker Science  
Library Associates,  
Detroit, Mich.

Office of Technical Services

Investigation of Natural Convection in Electrolysis:  
Interferometric Studies of Diffusion Layer I, by  
N. Ibl, et al, 28 pp.

GERMAN, per, Helvetica Chemica Acta, Vol XXXVII,  
No 2, 1954, pp 583-597.

S.L.A. Tr No 277/1955

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Sci - Chemistry  
Jan 1957 CIS/dex

SLA TR-64-10153

Preparation of Aminoacid- and Peptide Thioesters,  
by R. Schwyzer, 5 pp.

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pp 647-649.

S.L.A. Tr 635/1955

Sci - Chemistry  
Apr 1957 CTS/dex

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KHMH

On a Melting-Point Depression of Organic Substances in Thin Films, by G. Karagounis, 13 pp.

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SLA Tr 1620 (Jan 1957)

Sci - Chem  
Apr 1957

46,181

Pharmacological-Chemical Studies on the  
Dihydropyridine Series. Eighth Report (1)  
Pyriderazine V. Alkylation and Rearrangements in the  
Cyclic Malic Acid Hydrazide Series, by K.  
Eichenberger, et al., 22 pp.

GERMAN, per, Helv Chim Acta, Vol XXVII, p 837,  
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S.L.A. Dr 975/56  
<sup>6</sup>

Sci - Chemistry  
Sep 56 CPS

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A Simplified Method for Obtaining Human  
Albumin and Gamma-Globulin From Blood Plasma  
by Alcohol Precipitation, by Hs. Nitschmann,  
P. Kistler, W. Lergier, 17 pp.

GERMAN, per, Helv Chim Acta, Vol XXXVII, No 3,  
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NIH

Scientific - Chemistry

CTS/DEX

13, 812

Complexes XXV. Polarographic Investigation of Exchange Equilibria; New Data on the Formation Constants of Metallic Complexes of Ethylenediamine Tetra-acetic Acid and of 1,2-Diaminocyclohexane Tetraacetic Acid, by G. Schwarzenbach, R. Gut, G. Anderegg, 25 pp.

GERMAN, per, Helv Chim Acta, Vol XXXVII, No 4, 1954,  
pp 937-957.

SLA 60-14044

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Sci

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Vol XXXVII, No 4

Modification of the Method for Determining C-Methyl,  
Using Minimal Amounts of Substance, by C. F.  
Garbers, H. Schmidt, P. Karrer, 4 pp.

GERMAN, per, Helvetica Chimica Acta, Vol XXXVII,  
No 4, 1954, pp 1336-1338.

SLA 60-14124

Sci  
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Apr 61

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The Question of Hepatitis Transmission by  
Gamma-Globulin, by M. Berger, A. Hassig,  
P. Zumstein, 3 pp.

GERMAN, per, Helv Chim Acta, Vol XXXVII, No 5,  
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Scientific - Medicine

CTS/DEX

13, 813

The Determination of Thermodynamic Acidity  
Constants, by R. G. Bates, G. Schwarzenbach,  
13 pp.

GIERMAN, per, Helv Chem Acta, Vol XXXVII, 1954,  
pp 1069-1079.

A.E.R.E. Harwell Lib Tr 716

Sci - Chemistry  
March 57 CIS/dex

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Wilt Substances and Antibiotics. 15th Report.  
Constitution and Synthesis of Fusaric Acid. S  
Synthesis of 5-Ethyl-and 5-N-Hexyl-Pyridine-2-  
Carbonic Acid, by Pl. A. Plattner.  
GERMAN, per, Helv Chim Acta, Vol 37, No 5, 1954,  
pp 1379-1392.  
IUEW NIH  
5-5-69

Sci/B&N  
Aug 69

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Knowledge of the Basic Azides: I. The Basic  
Lead Azides, by W. Feitknecht, M. Sahli.

GERMAN, per, Helv Chem Acta, Vol XXXVII,  
No 5, (166), 1954, pp 1423-1431.

TPA3/TIB T 4469

Sci - Chemistry'

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On the Knowledge of Basic Azides: 2. The  
Hydrolysis of Lead Azide, by W. Feitknecht,  
M. Sahli.

GERMAN, per, Helv Chim Acta, Vol XXXVII,  
No 5, 1954, pp 1431-1436.

SIA 57-1765  
TPA3/TIB T 4521

Sci - Chemistry

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Microbiological Hydroxylation of Steroids  
in 17 $\alpha$  Position (1). Microbiological  
Reactions, 4th Report (2), by C. Meytre, E.  
Vicher, A. Wettstein, 8 pp.

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SIA 57-1919

May 58

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A Pasteurizable Human Plasma Protein Solution  
Obtained by Desalting of Plasma with Ion  
Exchangers, by H. Nitschmann, P. Kistler, 16 pp.

GERMAN, per, Helv Chim Acta, Vol. XXXVII, 1954,  
pp 1767-1778.

SIA 57-2721

Sci  
Aug 58

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Utzinger, G. Ed. and Regenass, F. A.  
A SPECIFIC REAGENT FOR ALDEHYDES, I. [1962] 6p.  
Order from K-H \$7.50 K-H 3504 c  
Trans. of Helv[etical]ical Chim[ica] Acta (Switzerland) 1954,  
v. 37, p. 1901-1903.

DESCRIPTORS: \*Reagents, \*Aldehydes.

62-22819

I. Utzinger, G. E.  
II. Regenass, F. A.  
III. K-H-3504-c  
IV. Kresge-Hooker Science  
Library Associates,  
Detroit, Mich.

(Chemistry--Organic, TT, v. 9, no. 1)

Office of Technical Services

Concerning the Mixed Adsorption of Radon on  
Activated Charcoal With Various Carrier Gases,  
by O. Guebeli, M. Stoeri, 9 pp.  
GERMAN, per, Helvetica Chemica Acta, Vol XXXVII,  
1954, pp 2224-2230. 922 3537  
AEC-SC-T-64-616

Sci-Chem  
Aug 64

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Influence of Phytol on the Fat Metabolism  
of the Liver, by K. Bernhard.  
GERMAN, per, Molv Chim Acta, Vol XXXVII, 1954,  
pp 2356-2360.  
HEW NIH No 3-24-66

Sci - B/M  
May 66

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4. The Analysis of Brass by Vacuum  
Distillation, by W. D. Treadwell and G.  
K Frey, 12 pp.

GERMAN, per, Helvetica Chimica Acta,  
Vol XXVII, 1955, pp 42-50.

CIA/FED/Z-223

Sci - Chemistry, minerals/metals

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New High-Performance Laboratory Centrifuges, Pt. I., by  
by E. Wiedmann.

GERMAN, per, Helvetica Chimica Acta, 1955, vol. 38  
no. 5/6, pp. 37-46.

ATS-39R78AG

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Aug 66

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306,608

On the Radon Adsorption With Activated Charcoal in  
the Open System of the Free Gas Flow, by O. Gubeli,  
M. Stori, 7 pp.  
GERMAN, per, Helvetica Chimica Acta, Vol XXXVIII,  
1955, pp 180-185. 9224356  
~~XEREOGRAPHIC~~  
AEC-SC-Tx-64-617

Sci-xChem  
Aug 64

265,157

Colorimetrical Determination of Zirconium  
With Alizarin, by S. Gubeli, A. Jacob.

GERMAN, per, Helvetica Chimica Acta,  
Vol XXXVIII, No 117, pp 1026-1032.

CSIRO

Sci - Chem  
May 62

196, 401

Spectrophotometrical Determination of Acid and  
Alkaline Phosphatase With O-Carboxy-Phenyl-Phosphate,  
by Hans Brandenberger, 8 pp.  
GERMAN, per, Helvetica Chimica Acta, Vol XXXVIII,  
No 162, 1955, pp 1347-1351.  
Navy Tr 3771/NMS 861

Sci - Biol & Med  
Apr 64

255,106

STUDIES ON DRUGS IN THE MEXICAN REVOLUTION  
by P. Schmidt and J. Rovay.

GERMAN, Ver. Repr. Obra Acta, Vol XXVII,  
1955, pp 1569-1564.

ASLUS-682

Sci

Aug 58

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Electrolysis of Molten Lithium Chloride, by G.  
Parissakis, W. D. Treadwell, 8 pp.

GERMAN, per, Helvetica Chimica Acta, Vol XXXVIII,  
1955, pp 1749-1756.

SLA 59-10438

Sci - Chem  
Sep 59  
Vol 2, No 1

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Information on the Carbon Ring Concerning  
the Reaction of Cyclododecene with  
Performic Acid, by V. Prelog, Margrit  
Speck, 8p.  
SWISS, per, Helvetica Chimica Acta,  
Vol 38, No 7, 1955, pp 1786-1794.  
SLA TT-65-10240

333, 848

Sci  
Aug 67

<p>Schwarzenbach, G. and Schneider, W. COMPLEXONS. XXVII. DIELECTRIC ACTION OF HYDROLYSIS ENVELOPES OF THE HYDROGEN ION AND VARIOUS METAL CATIONS IN AQUEOUS SOLUTION, tr. by Bertha P. Klenova. 23 Jan 56, 9p. 6 refs. [No.] 3510. Order from OTS or SLA \$1.10 Trans. of [Helvetica] Chim[ica] Acta (Switzerland) 1955, v. 38, p. 1931-1940.</p> <p>DESCRIPTORS: *Complex compounds, Dielectric properties, Chemical bonds, Ions, Amines, Acetic acids.</p> <p>See also 59-15666, 60-14044.</p> <p>(Chemistry--Organic, TT, v. 6, no. 5)</p>	<p>60-23459</p> <p>I. Title: Complexones I. Schwarzenbach, G. II. Schneider, W. III. TVA-3510 IV. Tennessee Valley Authority, Wilson Dam, Ala. V. Title: Dielectric... VI. Title: Complexones</p> <p>180422</p> <p>Office of Technical Services 4-27-61</p>
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On the Determination of the Catechol Amines and the  
Pyrocatechins in Human Urine, by M. Goldstein,  
I. Abelin, 16 pp.

GERMAN, par, Helv Chim Acta, Vol XXXIX, 1956,  
pp 158-167.

NH 9-3

Sci - Chem  
Sep 59

97,384

The Formacidins A, B, C and D.

Metabolic Products of Actinomycetes. 4th  
Report, by R. Crobas, 26 pp.

GERMAN, per, Helv Chim Acta, Vol XXXIX, 1956,  
pp 304-317.

SLA 57-3174

Sci

Aug 58

72,897

Hardegger, E. and Nikles, E.  
WILT SUBSTANCES AND ANTIBIOTICS INVESTIGATIONS IN THE PYRIDIN-SERIES; A NEW PASCAGE WAY TO FUSARIC ACID (Welkstoffe und Antibiotika Untersuchungen in der Pyridin-Reihe; Ein Neuer weg zur Fusarinsäure). [1961] [19]p. 25 refs. Order from SLA mi\$1.60

61-10535  
I. Hardegger, E.  
II. Nikles, E.

Trans. of Helvetica Chimica Acta (Switzerland) 1956, v. 39, no. 2 [p. 505-513].

DESCRIPTORS: \*Fusaric acid, Acids, Synthesis, Pyridines, \*Antibiotics, Pyridine derivatives.

Alkalization of  $\beta$ -picolin (I) with alkylbromide leads with a good yield to the 3-n-alkyl-pyridine (propyl up to hexyl). The aminization of 3-n-butyl-pyridine (V) gives predominantly 2-amino 3-n-butyl-pyridine (VI) and a little 2 amino-5-n-butyl-pyridine (II). From (Chemistry--Organic, TT, v. 7, no. 8) (over)

Office of Technical Services

Metal Complexes With Polyamines. II: With Cis-and  
Trans- $\alpha,\omega$ -1,2-diaminocyclohexane. by G. Schwarzenbach,  
R. Baur, 8 pp.

GERMAN, per, Helv. Chim. Acta, Vol XXXIX, No. 3, 1956,  
pp 722-728.

SLA Tr 57-1790

Sci

Jun 58

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Catalytic and Electrical Properties of  
Semiconductors. II. Contribution to the  
Study of Semi-Conductors, by Jean Decrue,  
17pp.  
DUTCH, per, Helvetica Chimica Acta, Vol 39,  
No 3, 1956, pp 812-827.  
CFSTI TT-64-20127.

322,685

Sci - Physics  
Apr 67

On the Isotopic Effect During the Oxidation of  
Formate with Permanganate, by H. Aebi.

GERMAN, per, Helv Chim Acta, Vol XXXIX, 1956,  
pp 944-950.

INSDOC-T 2237

Sci  
Apr 59

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Ion Equilibria on Cation Exchanges of Different Exchange Capacities, by K. Hünziker, et al.

GREINER, per, Helvetica Chimica Acta, Vol XXXIX, No 4, 1956, pp 1038-1045.

CSIRO

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Ref. - Chem  
Jan 62

Freezing Point Depression Due to Anomalous Crystal  
Habit as Well as by Limitation of the Crystal Size,  
by Werner Kuhn, 24 pp.  
GERMAN, per, Helvetica Chimica Acta, Vol XXXIX,  
1956, pp 1071-1086. 922 3544  
AEC-ORNL-Tr-72

Sci-Chem  
Sep 64

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Spontaneous Resolution of 2,4-Dioxo-3,3-diethyl-5-methylpiperidine into ~~Split~~ Optical Antipodes, by K. Vogler  
M. Kofler, 8 pp.

HERMAN, per, *Helv Chim Acta*, Vol ~~XIX~~ XXXIX, 1956,  
pp 1387-1394.

CIA/FDD XX-247  
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Sci - Chemistry  
Feb 1957 CTS/dex  
IAC INTERNAL USE ONLY

44, 190